re-run
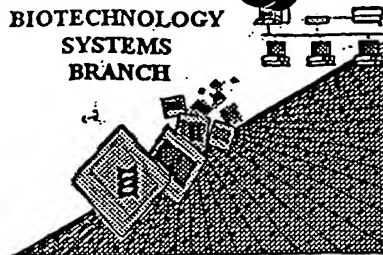
RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/002,884_

Source: _OIPE_

Date Processed by STIC: _12/13/2001_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).
Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/002,884

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFT

1 ____ Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 ____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino
Numbering

The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 ____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length

Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____ PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) ____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 ____ Skipped Sequences
(OLD RULES)

Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) ...
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ____ Skipped Sequences
(NEW RULES)

Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 ____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.

10 ____ Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or it Artificial Sequence

11 ____ Use of <220>

Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 ____ PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

RAW SEQUENCE LISTING   DATE: 12/13/2001
PATENT APPLICATION: US/10/002,884   TIME: 09:17:25

Input Set : A:\ES.txt
Output Set: N:\CRF3\12132001\I002884.raw

```
   3 <110> APPLICANT: Stein, Cy A
   4        Benimetskaya, Luba
   5        Guzzo-Pernell, Nancy
   7 <120> TITLE OF INVENTION: PEPTIDES THAT DELIVER ANTISENSE OLIGONUCLEOTIDES WHICH
WNREGULATE
   8        PROTEIN EXPRESSION IN CELLS
  10 <130> FILE REFERENCE: 0575/63293
->12 <140> CURRENT APPLICATION NUMBER: US/10/002,884
->12 <141> CURRENT FILING DATE: 2001-11-02
  12 <160> NUMBER OF SEQ ID NOS: 9
  14 <170> SOFTWARE: PatentIn version 3.1
  16 <210> SEQ ID NO: 1
  17 <211> LENGTH: 32
  18 <212> TYPE: PRT
  19 <213> ORGANISM: ARTIFICIAL SEQUENCE
  21 <220> FEATURE:
  22 <223> OTHER INFORMATION: PEPTIDE
  24 <400> SEQUENCE: 1
  26 Arg Arg Arg Arg Ser Arg Arg Arg Arg Arg Arg Phe Gly Arg Arg Arg
  27 1               5                   10                  15
  30 Arg Arg Arg Val Trp Arg Arg Arg Arg Pro Lys Lys Lys Arg Lys Val
  31             20                  25                  30
  34 <210> SEQ ID NO: 2
  35 <211> LENGTH: 21
  36 <212> TYPE: PRT
  37 <213> ORGANISM: ARTIFICIAL SEQUENCE
  39 <220> FEATURE:
  40 <223> OTHER INFORMATION: PEPTIDE
  42 <400> SEQUENCE: 2
  44 Arg Arg Arg Arg Arg Arg Trp Gly Arg Arg Arg Arg Arg Arg Pro Lys
  45 1               5                   10                  15
  48 Lys Lys Arg Lys Val
  49             20
  52 <210> SEQ ID NO: 3
  53 <211> LENGTH: 21
  54 <212> TYPE: PRT
  55 <213> ORGANISM: ARTIFICIAL SEQUENCE
  57 <220> FEATURE:
  58 <223> OTHER INFORMATION: CONTROL PEPTIDE
  60 <400> SEQUENCE: 3
  62 Arg Arg Arg Arg Arg Arg Trp Gly Arg Arg Arg Arg Arg Pro Lys
  63 1               5                   10                  15
  66 Gly Lys Arg Lys Val
  67             20
  70 <210> SEQ ID NO: 4
  71 <211> LENGTH: 31
  72 <212> TYPE: PRT
  73 <213> ORGANISM: ARTIFICIAL SEQUENCE
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[handwritten annotations:] pp 1-2

Does Not Comply
Corrected Diskette Needed

insufficient explanation - give source of genetic material (see item 11 on Error Summary Sheet)

same error

RAW SEQUENCE LISTING   DATE: 12/13/2001
PATENT APPLICATION: US/10/002,884   TIME: 09:17:25

      Input Set : A:\ES.txt
      Output Set: N:\CRF3\12132001\I002884.raw

```
75 <220> FEATURE:
76 <223> OTHER INFORMATION: CONTROL PEPTIDE
78 <400> SEQUENCE: 4
80 Arg Arg Arg Arg Ser Arg Arg Arg Arg Arg Arg Phe Gly Arg Arg Arg
81 1               5                   10                  15
84 Arg Arg Arg Val Trp Arg Arg Arg Lys Pro Lys Arg Lys Val Lys
85             20              25              30
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 20
90 <212> TYPE: DNA
91 <213> ORGANISM: ARTIFICIAL SEQUENCE
93 <220> FEATURE:
94 <223> OTHER INFORMATION: ANTISENSE OLIGONUCLEOTIDE
96 <400> SEQUENCE: 5
97 gttctcgctg gtgagtttca                                  20
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 18
102 <212> TYPE: DNA
103 <213> ORGANISM: ARTIFICIAL SEQUENCE
105 <220> FEATURE:
106 <223> OTHER INFORMATION: ANTISENSE OLIGONUCLEOTIDE
108 <400> SEQUENCE: 6
109 tctcccagcg tgcgccat                                    18
112 <210> SEQ ID NO: 7
113 <211> LENGTH: 20
114 <212> TYPE: DNA
115 <213> ORGANISM: ARTIFICIAL SEQUENCE
117 <220> FEATURE:
118 <223> OTHER INFORMATION: SCRAMBLED ANTISENSE OLIGONUCLEOTIDE
120 <400> SEQUENCE: 7
121 ggttttacca tcggttctgg                                  20
124 <210> SEQ ID NO: 8
125 <211> LENGTH: 5
126 <212> TYPE: PRT
127 <213> ORGANISM: ARTIFICIAL SEQUENCE
129 <220> FEATURE:
130 <223> OTHER INFORMATION: PEPTIDE
132 <400> SEQUENCE: 8
134 Tyr Lys Asp Glu Leu
135 1               5
138 <210> SEQ ID NO: 9
139 <211> LENGTH: 7
140 <212> TYPE: PRT
141 <213> ORGANISM: ARTIFICIAL SEQUENCE
143 <220> FEATURE:
144 <223> OTHER INFORMATION: PEPTIDE
146 <400> SEQUENCE: 9
148 Pro Lys Lys Lys Arg Lys Val
149 1               5
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/002,884

DATE: 12/13/2001
TIME: 09:17:26

Input Set : A:\ES.txt
Output Set: N:\CRF3\12132001\I002884.raw

L2 M:270 C: Current Application Number differs, Replaced Current Application No
L2 M:271 C: Current Filing Date differs, Replaced Current Filing Date